Application No. 10/561,368

Attorney Docket No. 281974US0PCT

Response to Official Action dated June 8, 2009

AMENDMENTS TO THE CLAIMS

Please cancel claims 7 and 9, and amend claims 1, 12 and 13, as follows:

Claim 1 (Currently Amended) A lubricant additive comprising:

a succinimide compound or a boronization product thereof (A), wherein the succinimide compound (A) is represented by the following general formula (1) and is obtained by reacting (a) a succinic acid substituted with an alkenyl or alkyl group having 6 to 30 carbon atoms or an anhydride thereof with (b) a polyalkylenepolyamine comprising 20-100 mole % of a polyalkylenepolyamine having a ring structure at an end, based on an entire amount of the polyalkylenepolyamine:

$$R^{1} \longrightarrow N \longrightarrow ((CH_{2})_{m} \longrightarrow NH)_{n} \longrightarrow (CH_{2})_{m} \longrightarrow A$$
 (1)

wherein

R¹ represents an alkenyl or alkyl group having 6 to 30 carbon atoms,

m represents an integer of 2 to 4,

n represents an integer of 0 to 3, and

A represents the ring structure in the polyalkylenepolyamine having a ring structure at an end or a mixed structure comprising the ring structure and an amino group; and

a succinimide compound or a boronization product thereof (B) having a numberaverage molecular weight of 500 to 5,000 and is substituted with an alkenyl or alkyl group, wherein the lubricant additive is for driving systems. **Application No. 10/561,368**

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Claim 2 (Previously Presented) The lubricant additive according to Claim 1, wherein the ring structure in the polyalkylenepolyamine having a ring structure at an end is a ring structure represented by the following general formula (2):

$$--N (CH2)p NH (2)$$

$$(CH2)q (CH2)q (2)$$

wherein p and q each independently represent an integer of 2 to 4.

Claim 3 (Previously Presented) The lubricant additive according to Claim 1, wherein the polyalkylenepolyamine having a ring structure at an end is aminoethylpiperazine.

Claims 4 and 5 (Cancelled).

Claim 6 (Previously Presented) The lubricant additive according to Claim 1, wherein the succinimide compound or the boronization product thereof (A) is a compound having a linear alkenyl or alkyl group having 6 to 30 carbon atoms which is bonded at an end portion or an intermediate portion of the alkenyl or alkyl group.

Claim 7 (Cancelled).

Claim 8 (Previously Presented) A lubricant composition comprising the lubricant additive according to Claim 1.

Claim 9 (Cancelled).

Claim 10 (Previously Presented) The lubricant composition according to Claim 8, which is a lubricant composition for automatic transmissions.

Claim 11 (Previously Presented) The lubricant composition according to Claim 8, which is a lubricant composition for continuous variable transmissions.

Claim 12 (Currently Amended) The lubricant additive according to Claim [[7]] 1, wherein the succinimide compound (B) is represented by the following general formula (3) and is obtained by reacting (a) a succinic acid substituted with an alkenyl or alkyl group having 30 to 300 carbon atoms or an anhydride thereof with (b) a polyalkylenepolyamine comprising a polyalkylenepolyamine having at an end thereof a ring structure, an amino group having no ring structure or a mixed structure comprising the ring structure and an amino group:

$$R^{1'} \longrightarrow N \longrightarrow ((CH_2)_{m'} \longrightarrow NH)_{n'} \longrightarrow (CH_2)_{m'} \longrightarrow A'$$
 (3)

wherein

R1' represents an alkenyl or alkyl group having 30 to 300 carbon atoms,

m' represents an integer of 2 to 4,

n' represents an integer of 0 to 6, and

A' represents the ring structure, the amino group having no ring structure or the mixed structure comprising the ring structure and the amino group.

Claim 13 (Currently Amended) The lubricant additive according to Claim [[7]] 1, wherein the succinimide compound or the boronization product thereof (B) is present in the lubricant additive in an amount of 10-1,000 wt. %, based on 100 wt. % of the succinimide compound or the boronization product thereof (A).

Claim 14 (Previously Presented) A lubricant additive comprising:

- (A) a succinimide compound or a boronization product thereof; and
- (B) a succinimide compound or a boronization product thereof having a number-average molecular weight of 500 to 5,000 and is substituted with an alkenyl or alkyl group,

wherein the succinimide compound (A) is represented by the following general formula (1) and is obtained by reacting (a) a succinic acid substituted with an alkenyl or alkyl group having 6 to 30 carbon atoms or an anhydride thereof with (b) a polyalkylenepolyamine comprising 20-100 mole % of a polyalkylenepolyamine having a ring structure at an end, based on an entire amount of the polyalkylenepolyamine:

$$R^1$$
 N
 $((CH_2)_m$
 $NH)_n$
 $(CH_2)_m$
 (1)

wherein

R¹ represents an alkenyl or alkyl group having 6 to 30 carbon atoms,

m represents an integer of 2 to 4,

n represents an integer of 0 to 3, and

A represents the ring structure in the polyalkylenepolyamine having a ring structure at an end or a mixed structure comprising the ring structure and an amino group.